

3-30-04



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/604,219 §
Filing Date: July 1, 2003 §
Inventor: Mamak, Walter J.; and §
Scharp, Kerry D. §
Title: Multiple Antenna Configuration §
and Support Structure §

TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

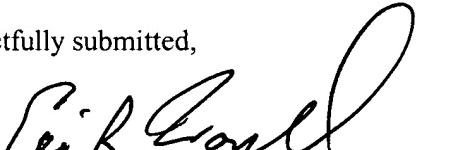
Dear Sir:

Electronics Research, Inc. has recently acquired assignment rights to the above-identified patent application and respectfully submits the following for filing in the application:

- Revocation of Power of Attorney with New Power of Attorney and Change of Correspondence Address (PTO/SB/82)
- Power of Attorney and Correspondence Address Indication Form (PTO/SB/81)
- Statement Under 37 CFR 3.73(b) (PTO/SB/96)
- Copy of Assignment from Andrew Corporation to Electronics Research, Inc.
- Copy of USPTO Notice of Recordation of Assignment Document with attached Recordation Form Cover Sheet

Respectfully submitted,

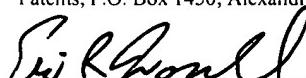
By:

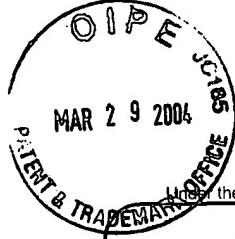

Eric R. Wandel
Registration No. 45,809

Date: March 29, 2004

Electronics Research, Inc.
7777 Gardner Road
Chandler, IN 47610
Telephone: (812) 925-6000
Facsimile: (812) 925-4030

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 29, 2004.


Eric R. Wandel
Registration No. 45,809



MAR 29 2004

PTO/SB/82 (09-03)

Approved for use through 11/30/2005. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**REVOCATION OF POWER OF
ATTORNEY WITH
NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	10/604,219
Filing Date	July 1, 2003
First Named Inventor	Mamak, Walter J.
Art Unit	
Examiner Name	
Attorney Docket Number	

I hereby revoke all previous powers of attorney given in the above-identified application.

A Power of Attorney is submitted herewith.

OR

I hereby appoint the practitioners associated with the Customer Number:

Please change the correspondence address for the above-identified application to:

The address associated with
Customer Number:

OR

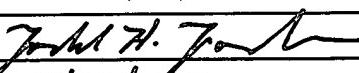
<input checked="" type="checkbox"/> Firm or Individual Name	Eric Wandel, P.E. Registered Patent Agent			
Address	Electronics Research, Inc.			
Address	7777 Gardner Road			
City	Chandler	State	IN	Zip
Country	USA			
Telephone	(812) 925-6000	Fax	(812) 925-4030	

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name	Todd H. Forbes, CPA, CFO		
Signature			
Date	3/29/2004	Telephone	(812) 925-6000

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/81 (09-03)

Approved for use through 11/30/2005. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY
and
CORRESPONDENCE ADDRESS
INDICATION FORM**

Application Number	10/604,219
Filing Date	July 1, 2003
First Named Inventor	Mamak, Walter J.
Title	Multiple Antenna Configuration
Art Unit	
Examiner Name	
Attorney Docket Number	

I hereby appoint:

 Practitioners associated with the Customer Number:

OR

 Practitioner(s) named below:

Name	Registration Number
C. Richard Martin	37,080
Eric Wandel	45,809

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

 The address associated with the above-mentioned Customer Number:

OR

 The address associated with Customer Number:

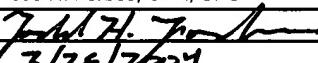
OR

<input checked="" type="checkbox"/> Firm or Individual Name	Eric Wandel, P.E.			
Address	Electronics Research, Inc.			
Address	7777 Gardner Road			
City	Chandler	State	IN	Zip 47610
Country	USA			
Telephone	(812) 925-6000	Fax	(812) 925-4030	

I am the:

 Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

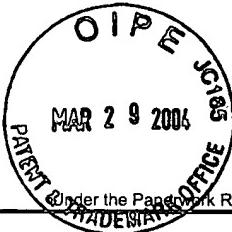
SIGNATURE of Applicant or Assignee of Record

Name	Todd H. Forbes, CPA, CFO		
Signature			
Date	3/29/2004	Telephone	(812) 925-6000

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

 *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Electronics Research, Inc.

Application No./Patent No.: 10/604,219 Filed/Issue Date: July 1, 2003

Entitled: Multiple Antenna Configuration and Support Structure

Electronics Research, Inc. a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or2. an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:

A. [] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. [✓] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Walter J. Mamak and Kerry D. Scharp To: Andrew Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: Andrew Corporation To: Electronics Research, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 014201, Frame 0179, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[✓] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document)
must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be
recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

3/29/2004

Date

812-925-6000

Telephone number

Todd H. Forbes, CPA

Typed or printed name

Todd H. Forbes

Signature

Chief Financial Officer

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



700057175A

DECEMBER 17, 2003

PTAS

WOODARD, EMHARDT, MORIARTY ET.AL.
SCOTT J. STEVENS
111 MONUMENT CIRCLE, SUITE 3700
INDIANAPOLIS, IN 46204

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/17/2003

REEL/FRAME: 014201/0179
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
ANDREW CORPORATION

DOC DATE: 11/21/2003

ASSIGNEE:
ELECTRONICS RESEARCH, INC.
7777 GARDNER ROAD
CHANDLER, INDIANA 47610

SERIAL NUMBER: 10303991
PATENT NUMBER:

FILING DATE: 11/25/2002
ISSUE DATE:

SERIAL NUMBER: 10604219
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

SERIAL NUMBER: 10249392
PATENT NUMBER:

FILING DATE: 04/04/2003
ISSUE DATE:

SERIAL NUMBER: 06595238	FILING DATE: 04/02/1984
PATENT NUMBER: 4543548	ISSUE DATE: 09/24/1985
SERIAL NUMBER: 06597480	FILING DATE: 04/06/1984
PATENT NUMBER: 4564826	ISSUE DATE: 01/14/1986
SERIAL NUMBER: 06733707	FILING DATE: 05/13/1985
PATENT NUMBER: 4628538	ISSUE DATE: 12/09/1986
SERIAL NUMBER: 06683004	FILING DATE: 12/18/1984
PATENT NUMBER: 4654612	ISSUE DATE: 03/31/1987
SERIAL NUMBER: 07178246	FILING DATE: 04/06/1988
PATENT NUMBER: 4851857	ISSUE DATE: 07/25/1989
SERIAL NUMBER: 07176631	FILING DATE: 04/01/1988
PATENT NUMBER: 4907008	ISSUE DATE: 03/06/1990
SERIAL NUMBER: 07517427	FILING DATE: 05/01/1990
PATENT NUMBER: 5017938	ISSUE DATE: 05/21/1991
SERIAL NUMBER: 07520890	FILING DATE: 05/09/1990
PATENT NUMBER: 5021797	ISSUE DATE: 06/04/1991
SERIAL NUMBER: 08344964	FILING DATE: 11/25/1994
PATENT NUMBER: 5506591	ISSUE DATE: 04/09/1996
SERIAL NUMBER: 09127145	FILING DATE: 07/31/1998
PATENT NUMBER: 5999071	ISSUE DATE: 12/07/1999
SERIAL NUMBER: 09692533	FILING DATE: 10/19/2000
PATENT NUMBER: 6492959	ISSUE DATE: 12/10/2002

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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12/17/2003

TO: 17033065995

P.002/006

MAR 29 2004

037058-000002.SJS 200302

Form PTO-1585

(Rev. 05/01)
OMB No. 0651-0027 (exp. 5/31/2002)

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TRADEMARK OFFICE RECORDATION FORM COVER SHEET
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Andrew Corporation

2. Name and address of receiving party(ies)

Name Electronics Research, Inc.

Internal Address _____

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

 Assignment
 Security Agreement
 Other Merger
 Change of Name of

Execution Date: November 21, 2003

Street Address 7777 Gardner Road

City Chandler State IN Zip 47610

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No. (s)

B. Patent No.(s)

See Attached List

See Attached List

Additional number(s) attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name Scott J. Stevens

Internal Address Woodard, Emhardt, Moriarty, McNerney
& Henry LLP

Street Address 111 Monument Circle

Suite 3700

City Indianapolis State IN ZIP 46204

6. Total number of applications and patents involved: 14

7. Total fee (37 CFR 3.41) \$ 560.00

 Enclosed Authorized to be charged to deposit account

8. Deposit account number:

23-3030

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and Signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Scott J. Stevens

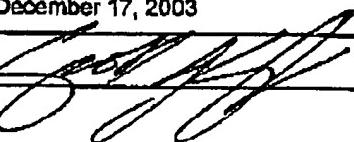
Name of Person Signing

December 17, 2003

Date

Total number of pages including cover sheet, attachments, and document: 7

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Name of Person Signing:	Scott J. Stevens	Signature:	

ASSIGNMENT RECORDATION COVER

Page 1

03705R-000002.SJS.256302

4A Continued: Patent Applications

1. United States Patent Application No. 10/303,991 - Fanton, filed November 25, 2002
2. United States Patent Application No. 10/604,219 - Mamak et al., filed July 1, 2003
3. United States Patent Application No. 10/249,392 - Fallon et al., filed April 4, 2003

4B Continued: Patent Registrations

1. United States Patent No. 4,543,548 - Seal et al., issued September 24, 1985
2. United States Patent No. 4,564,826 - Wiesenfarth et al., issued January 14, 1986
3. United States Patent No. 4,628,538 - Basa, issued December 9, 1986
4. United States Patent No. 4,654,612 - Smith, issued March 31, 1987
5. United States Patent No. 4,851,857 - Dienes, issued July 25, 1989
6. United States Patent No. 4,907,008 - Dienes, issued March 6, 1990
7. United States Patent No. 5,017,938 - Dienes, issued May 21, 1991
8. United States Patent No. 5,021,797 - Dienes, issued June 4, 1991
9. United States Patent No. 5,506,591 - Dienes, issued April 9, 1996
10. United States Patent No. 5,999,071 - Ostertag, issued December 7, 1999
11. United States Patent No. 6,492,959 - Heatherwick et al., issued December 10, 2002



Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. Patent and Trademark Office

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Andrew Corporation

2. Name and address of receiving party(ies)

Name Electronics Research, Inc.

Internal Address _____

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name of |
| <input type="checkbox"/> Other | |

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Street Address 7777 Gardner Road

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Additional name(s) & address(es) attached? Yes No

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See Attached List

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& Henry LLP

Street Address 111 Monument Circle

Suite 3700

City Indianapolis State IN ZIP 46204

6. Total number of applications and patents involved: 14

7. Total fee (37 CFR 3.41) \$.560.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

23-3030

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and Signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy o the original document.

Scott J. Stevens

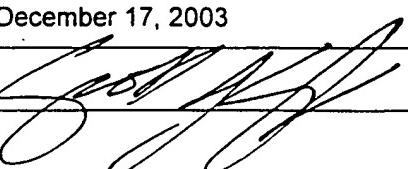
Name of Person Signing

December 17, 2003

Date

Total number of pages including cover sheet, attachments, and document: 7

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Date of Transmission:	December 17, 2003	Date of Signature:	December 17, 2003
Name of Person Signing:	Scott J. Stevens	Signature:	

4A Continued: Patent Applications

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6. United States Patent No. 4,907,008 - Dienes, issued March 6, 1990 ✓
7. United States Patent No. 5,017,938 - Dienes, issued May 21, 1991 ✓
8. United States Patent No. 5,021,797 - Dienes, issued June 4, 1991 ✓
9. United States Patent No. 5,506,591 - Dienes, issued April 9, 1996 ✓
10. United States Patent No. 5,999,071 - Ostertag, issued December 7, 1999 ✓
11. United States Patent No. 6,492,959 - Heatherwick et al., issued December 10, 2002 ✓



APPLICATION DATA SHEET

Electronic Version v14.0
Stylesheet Version v14.0

Title of Invention	Multiple Antenna Configuration and support structure
Application Type : regular, utility	
Correspondence address: Customer Number: 31424	
	
Inventors Information:	
<u>Inventor 1:</u>	
Applicant Authority Type:	Inventor
Citizenship:	US
Name prefix:	Mr.
Given Name:	Walter
Middle Name:	J.
Family Name:	Mamak
Name suffix:	P.E.
City of Residence:	Lansing
State of Residence:	IL
Country of Residence:	US
Address-1 of Mailing Address:	19249 Bernadine Lane
Address-2 of Mailing Address:	
City of Mailing Address:	Lansing
State of Mailing Address:	IL
Postal Code of Mailing Address:	60438
Country of Mailing Address:	US
Phone:	
Fax:	
E-mail:	
<u>Inventor 2:</u>	
Applicant Authority Type:	Inventor
Citizenship:	US
Name prefix:	Mr.
Given Name:	Kerry

Middle Name:	D.
Family Name:	Scharp
City of Residence:	Clifton
State of Residence:	IL
Country of Residence:	US
Address-1 of Mailing Address:	2688 N. 1590 E. Road
Address-2 of Mailing Address:	
City of Mailing Address:	Clifton
State of Mailing Address:	IL
Postal Code of Mailing Address:	60927
Country of Mailing Address:	US
Phone:	
Fax:	
E-mail:	

Attorney Information:

practitioner(s) at Customer Number:

31424



as our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Publication Information:

Suggested Figure for Publication - 1

Suggested Classification -

Suggested Technology Center -

Total Number of Drawing Sheets - 2

Assignee 1:

Organization Name: Andrew Corporation

Address-1 of Mailing Address: 10500 W. 153rd Street

Address-2 of Mailing Address:

City of Mailing Address: Orland Park

State of Mailing Address: IL

Postal Code of Mailing Address: 60462-3099

Country of Mailing Address: US

Phone:

Fax:

E-mail:

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT, dated as of this 21st day of November, 2003 is made by Andrew Corporation, a Delaware corporation ("Assignor") to Electronics Research, Inc., an Indiana corporation (the "Assignee").

BACKGROUND

Assignor and Assignee have entered into an Asset Purchase Agreement dated contemporaneously herewith, pursuant to which Assignor has agreed to assign certain assets to Assignee, including the patents and patent applications listed on the attached Schedule 1, in accordance with the terms and conditions set forth below:

NOW, THEREFORE, in consideration of the covenants and conditions contained herein, the parties hereby agree as follows:

TERMS AND CONDITIONS

For good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, Assignor does hereby sell, assign, transfer and convey to Assignee its entire right, title and interest in and to the patents and patent applications listed on the attached Schedule 1 ("Patents"), including all inventions and improvements claimed therein; all reissues, divisionals, continuations, renewals, and continuations-in-part of any of the foregoing; including all income, right, damages or payments now and hereafter due and/or payable with respect to the Patents, including without limitation damages or payments for infringement of the Patents, the royalty to use for infringements of the Patents, to be held and enjoyed by Assignee for Assignee's own use and enjoyment as fully and entirely as would have been held and enjoyed by Assignor if this assignment, transfer, conveyance and sale had not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to record Assignee as the owner of the true right, title and interest in and to the Patents. Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed and will not execute any agreement in conflict herewith.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

ASSIGNORS

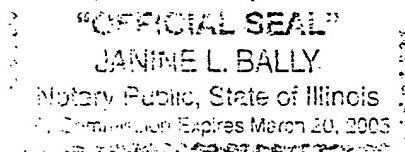
Andrew Corporation

By: Marty H. Miller
Title Vice Pres

Subscribed and Sworn to
before me this 20th day of
November, 2003.

Janine L. Bally
Notary Public

My Commission Expires: March 29, 2005



ASSIGNEE

Assignee:
Electronics Research, Inc.

By: _____
Title: _____

Subscribed and Sworn to
before me this _____ day of
_____, 2003.

Notary Public

My Commission Expires: _____

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

ASSIGNORS

Andrew Corporation

By: _____
Title: _____

Subscribed and Sworn to
before me this _____ day of
_____, 2003.

Notary Public

My Commission Expires: _____

ASSIGNEE

Assignee:
Electronics Research, Inc.

By: Thomas R. Silberman
Title: President

Subscribed and Sworn to
before me this 21 day of
November, 2003.

Cindy D. James
Notary Public

My Commission Expires: 11-02-04

SCHEDULE 1

Patents

1. United States Patent No. 4,543,548, titled "Coaxial Transmission Line Having An Expandable and Contractible Bellows" by William W. Seal and Laddie A. Basa, issued September 24, 1985.
2. United States Patent No. 4,564,826, titled "Multiple Mitered Circular Waveguide Bend" by Hans J. Wiesenfarth and Geza Dienes, issued January 14, 1986.
3. United States Patent No. 4,628,538, titled "Television Transmission System Using Overmoded Waveguide" by Laddie A. Basa, issued December 9, 1986.
4. United States Patent No. 4,654,612, titled "Spring Hanger System for UHF Circular Waveguide Having Glide Ring and Clamping Ring Connected by Constant Force Springs" by Richard D. Smith, issued March 31, 1987.
5. United States Patent No. 4,851,857, titled "High-Power, End-Fed, Non-Coaxial UHF-TV Broadcast Antenna" by Geza Dienes, issued July 25, 1989.
6. United States Patent No. 4,907,008, titled "Antenna for Transmitting Circularly Polarized Television Signals" by Geza Dienes, issued March 6, 1990.
7. United States Patent No. 5,017,938, titled "UHF-TV Broadcast System Having Circular, Non-Coaxial Waveguide Transmission Line for Operation in the TE₁₁ Mode" by Geza Dienes, issued May 21, 1991.
8. United States Patent No. 5,021,797, titled "Antenna for Transmitting Elliptically Polarized Television Signals" by Geza Dienes, issued June 4, 1991, expiring May 9, 2010.
9. United States Patent No. 5,506,591, titled "Television Broadcast Antenna for Broadcasting Elliptically Polarized Signals" by Geza Dienes, issued April 9, 1996.
10. United States Patent No. 5,999,071, titled "Apparatus for Reducing VSWR in Rigid Transmission Lines" by Edward L. Ostertag, issued December 7, 1999.
11. United States Patent No. 6,492,959, titled "Stacked Array Antenna System" by Alan E. Heatherwick, Edward L. Ostertag, Myron D. Fantom, Kerry D. Scharp and Walter J. Mamak, issued December 10, 2002, expiring October 19, 2020.
12. Canadian Patent No. 2,323,861, titled "Stacked Array Antenna System" by Alan E. Heatherwick, Edward L. Ostertag, Myron D. Fantom, Kerry D. Scharp and Walter J. Mamak, issued April 15, 2003.

13. United Kingdom Patent No. 2,355,592, titled “Stacked Array Antenna System” by Alan E. Heatherwick, Edward L. Osterdag, Myron D. Fantom, Kerry D. Scharp and Walter J. Mamak, issued July 9, 2003.
14. United States Patent Appl. No. 10/303,991, titled “Method and Apparatus for Calibration of a Vector Network Analyzer” by Myron D. Fantom, filed November 25, 2002.
15. United States Patent Appl. No. 10/604,219, titled “Multiple Antenna Configuration and Support Structure” by Walter J. Mamak and Kerry D. Scharp, filed July 1, 2003.
16. United States Patent Appl. No. 10/249,392, titled “Variable Coupling Factor Directional Coupler” by Dan Fallon and Kerry Phelps, filed April 4, 2003.